

Ag. Waste Application and Excavated Ponds
Jerauld County, South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation.)

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Ad: Alwilda-----	90	Very limited Filtering capacity Droughty	1.00 0.01	Very limited Deep to water	1.00
Af: Arlo-----	90	Very limited Depth to saturated zone Filtering capacity Flooding	1.00 1.00 0.60	Very limited Cutbanks cave	1.00
Ar: Artesian-----	85	Very limited Restricted permeability Runoff limitation Salinity	1.00 0.40 0.01	Very limited Slow refill Deep to water Cutbanks cave Salty water	1.00 0.81 0.10 0.01
At: Artesian-----	50	Very limited Restricted permeability Runoff limitation Salinity	1.00 0.40 0.01	Very limited Slow refill Deep to water Cutbanks cave Salty water	1.00 0.81 0.10 0.01
Bullcreek-----	40	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Deep to water	1.00
Av: Artesian-----	60	Very limited Restricted permeability Runoff limitation Salinity	1.00 0.40 0.01	Very limited Slow refill Deep to water Cutbanks cave Salty water	1.00 0.81 0.10 0.01

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Durrstein Variant---	30	Very limited Restricted permeability Sodium content Depth to saturated zone Salinity Runoff limitation	1.00 1.00 0.84 0.50 0.40	Very limited Slow refill Salty water Cutbanks cave Deep to water	1.00 0.50 0.10 0.07
Ba: Baltic-----	85	Very limited Restricted permeability Depth to saturated zone Flooding Runoff limitation	1.00 1.00 0.60 0.40	Somewhat limited Slow refill Cutbanks cave	0.99 0.10
BdA: Beadle-----	85	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
BdB: Beadle-----	85	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
BgB: Beadle-----	45	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Jerauld-----	30	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Deep to water	1.00
Dudley-----	15	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 1.00 0.40 0.06	Somewhat limited Slow refill Deep to water Salty water Cutbanks cave	0.99 0.90 0.78 0.10
BlB: Beadle-----	45	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Lane-----	45	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
BmD: Betts-----	45	Very limited Slope Restricted permeability Cobble content	1.00 0.30 0.04	Very limited Deep to water	1.00
Ethan-----	35	Very limited Slope Cobble content Large stones on the surface Restricted permeability	1.00 1.00 0.92 0.30	Very limited Deep to water	1.00
BoE: Betts-----	55	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
Ethan-----	35	Very limited Slope	1.00	Very limited Deep to water	1.00
Br: Bon-----	85	Not limited		Very limited Deep to water	1.00
Bv: Bon-----	90	Very limited Flooding	1.00	Very limited Cutbanks cave Deep to water	1.00 0.81
CdB: Canning-----	50	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Delmont-----	40	Very limited Depth to dense layer Filtering capacity Droughty	1.00 1.00 0.28	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Cm: Clamo-----	90	Very limited Restricted permeability Depth to saturated zone Flooding Leaching limitation	1.00 1.00 0.60 0.50	Very limited Slow refill Cutbanks cave	1.00 0.10
CpB: Clarno-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Ethan-----	25	Not limited		Very limited Deep to water	1.00
Prosper-----	15	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
CpC: Clarno-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Ethan-----	25	Not limited		Very limited Deep to water	1.00
Prosper-----	15	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
CrA: Clarno-----	60	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Prosper-----	30	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
DaA: Davis-----	90	Not limited		Very limited Deep to water	1.00
DaB: Davis-----	90	Not limited		Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Dc: Davison-----	85	Somewhat limited Depth to saturated zone	0.68	Very limited Deep to water	1.00
DeC: Delmont-----	85	Very limited Depth to dense layer Filtering capacity Droughty	1.00 1.00 0.28	Very limited Deep to water	1.00
DgA: Delmont-----	70	Very limited Depth to dense layer Filtering capacity Droughty	1.00 1.00 0.28	Very limited Deep to water	1.00
Enet-----	25	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
DkD: Delmont-----	60	Very limited Depth to dense layer Filtering capacity Slope Droughty	1.00 1.00 0.63 0.28	Very limited Deep to water	1.00
Ethan-----	30	Very limited Slope	1.00	Very limited Deep to water	1.00
DmD: Delmont-----	50	Very limited Slope Depth to dense layer Filtering capacity Droughty	1.00 1.00 1.00 0.28	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Talmo-----	40	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00 0.76 0.45	Very limited Deep to water	1.00
DpA: Dudley-----	45	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 1.00 0.40 0.06	Somewhat limited Slow refill Deep to water Salty water Cutbanks cave	0.99 0.90 0.78 0.10
Jerauld-----	40	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Deep to water	1.00
Du: Durrstein-----	90	Very limited Restricted permeability Depth to saturated zone Sodium content Flooding Salinity	1.00 1.00 1.00 0.60 0.50	Very limited Slow refill Salty water Cutbanks cave	1.00 0.50 0.10
Dx: Durrstein-----	55	Very limited Restricted permeability Depth to saturated zone Sodium content Flooding Salinity	1.00 1.00 1.00 0.60 0.50	Very limited Slow refill Salty water Cutbanks cave	1.00 0.50 0.10
Egas-----	30	Very limited Restricted permeability Depth to saturated zone Salinity Flooding Runoff limitation	1.00 1.00 0.78 0.60 0.40	Very limited Slow refill Salty water Cutbanks cave	1.00 0.78 0.10

Ag. Waste Application and Excavated Ponds -- continued
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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Dz: Durrstein Variant---	55	Very limited Restricted permeability Sodium content Depth to saturated zone Salinity Runoff limitation	1.00 1.00 0.84 0.50 0.40	Very limited Slow refill Salty water Cutbanks cave Deep to water	1.00 0.50 0.10 0.07
Artesian-----	35	Very limited Restricted permeability Runoff limitation Salinity	1.00 0.40 0.01	Very limited Slow refill Deep to water Cutbanks cave Salty water	1.00 0.81 0.10 0.01
EaB: Eakin-----	45	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Ethan-----	25	Not limited		Very limited Deep to water	1.00
Onita-----	15	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
EnA: Enet-----	90	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
EpB: Enet-----	55	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Delmont-----	30	Very limited Depth to dense layer Filtering capacity Droughty	1.00 1.00 0.28	Very limited Deep to water	1.00
EtD: Ethan-----	50	Very limited Slope	1.00	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Betts-----	30	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
Fa: Farmsworth-----	55	Very limited Restricted permeability Sodium content Depth to saturated zone Salinity Runoff limitation	1.00 1.00 0.95 0.50 0.40	Very limited Slow refill Salty water Cutbanks cave Deep to water	1.00 0.50 0.10 0.02
Artesian-----	40	Very limited Restricted permeability Runoff limitation Salinity	1.00 0.40 0.01	Very limited Slow refill Deep to water Cutbanks cave Salty water	1.00 0.81 0.10 0.01
Fd: Farmsworth-----	50	Very limited Restricted permeability Sodium content Depth to saturated zone Salinity Runoff limitation	1.00 1.00 0.95 0.50 0.40	Very limited Slow refill Salty water Cutbanks cave Deep to water	1.00 0.50 0.10 0.02
Lane-----	40	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Fe: Fedora-----	85	Very limited Depth to saturated zone Filtering capacity Leaching limitation	1.00 1.00 0.70	Very limited Cutbanks cave	1.00
GpD: Gettys-----	55	Very limited Slope Restricted permeability	1.00 0.89	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Peno-----	35	Somewhat limited Restricted permeability Slope Salinity	0.89 0.63 0.01	Very limited Deep to water	1.00
HaB: Hand-----	50	Not limited		Very limited Deep to water	1.00
Ethan-----	25	Not limited		Very limited Deep to water	1.00
Prosper-----	15	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
HaC: Hand-----	40	Not limited		Very limited Deep to water	1.00
Ethan-----	30	Not limited		Very limited Deep to water	1.00
Prosper-----	15	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
HcA: Hand-----	55	Not limited		Very limited Deep to water	1.00
Prosper-----	25	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
HeB: Henkin-----	85	Not limited		Very limited Deep to water	1.00
HfD: Henkin Variant-----	85	Very limited Slope Filtering capacity Leaching limitation Droughty	1.00 1.00 0.45 0.01	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
HhA: Highmore-----	55	Not limited		Very limited Deep to water	1.00
Onita-----	30	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
HlA: Homme-----	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Onita-----	20	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Beadle-----	15	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
HpB: Homme-----	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Peno-----	30	Somewhat limited Restricted permeability Salinity	0.89 0.01	Very limited Deep to water	1.00
HpC: Homme-----	45	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Peno-----	40	Somewhat limited Restricted permeability Salinity	0.89 0.01	Very limited Deep to water	1.00
HrA: Houdek-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Dudley-----	40	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 1.00 0.40 0.06	Somewhat limited Slow refill Deep to water Salty water Cutbanks cave	0.99 0.90 0.78 0.10
HtB: Houdek-----	45	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Dudley-----	30	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 1.00 0.40 0.06	Somewhat limited Slow refill Deep to water Salty water Cutbanks cave	0.99 0.90 0.78 0.10
Jerauld-----	15	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Deep to water	1.00
HwB: Houdek-----	45	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Ethan-----	25	Not limited		Very limited Deep to water	1.00
Prosper-----	15	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
HwC: Houdek-----	40	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Ethan-----	30	Not limited		Very limited Deep to water	1.00
Prosper-----	15	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
HyA: Houdek-----	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Prosper-----	25	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Ln: Lane-----	85	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Lw: Lawet-----	85	Very limited Depth to saturated zone Leaching limitation	1.00 0.70	Somewhat limited Slow refill Cutbanks cave	0.43 0.10
M-W: Miscellaneous Water-	100	Not rated		Not rated	
On: Onita-----	85	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Op: Onita-----	60	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Plankinton-----	30	Very limited Restricted permeability Depth to saturated zone Ponding Runoff limitation	1.00 1.00 1.00 0.40	Somewhat limited Slow refill Cutbanks cave Salty water	0.30 0.10 0.01
PgC: Peno-----	60	Somewhat limited Restricted permeability Salinity	0.89 0.01	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued
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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Gettys-----	30	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Ph: Orthents, Gravelly--	95	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00 0.95 0.45	Very limited Deep to water	1.00
Pk: Plankinton-----	85	Very limited Restricted permeability Depth to saturated zone Ponding Runoff limitation	1.00 1.00 1.00 0.40	Somewhat limited Slow refill Cutbanks cave Salty water	0.30 0.10 0.01
Pr: Plankinton-----	70	Very limited Restricted permeability Depth to saturated zone Ponding Runoff limitation	1.00 1.00 1.00 0.40	Somewhat limited Slow refill Cutbanks cave Salty water	0.30 0.10 0.01
Crossplain-----	20	Very limited Flooding Depth to saturated zone Restricted permeability	1.00 1.00 0.89	Very limited Deep to water	1.00
ReA: Ree-----	90	Very limited Filtering capacity Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
ReB: Ree-----	85	Very limited Filtering capacity Restricted permeability	1.00 0.30	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
RnA: Ree-----	70	Very limited Filtering capacity Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
Canning-----	25	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
RnB: Ree-----	50	Very limited Filtering capacity Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
Canning-----	45	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Te: Tetonka-----	85	Very limited Restricted permeability Ponding Depth to saturated zone Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave Salty water	0.30 0.10 0.01
W: Water-----	100	Not rated		Not rated	
Wo: Worthing-----	90	Very limited Restricted permeability Ponding Depth to saturated zone Runoff limitation	1.00 1.00 1.00 0.40	Somewhat limited Slow refill Cutbanks cave Salty water	0.95 0.10 0.01

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Wp: Worthing-----	100	Very limited Restricted permeability Ponding Depth to saturated zone Runoff limitation	1.00 1.00 1.00 0.40	Somewhat limited Slow refill Cutbanks cave Salty water	0.95 0.10 0.01

